

## A MONITORING DEVICE FOR MELTING FURNACES

### ABSTRACT OF THE DISCLOSURE

Cracking of a crucible can cause heavy damage to the system in melting furnaces. A reliable monitoring of threatening breaking out of the melt is therefore needed. For this purpose a monitoring device for melting furnaces is provided to monitor the breaking out of melt and includes a closed circuit consisting of several conductor sections with at least a partially conducting surface and a measuring/displaying device. A first conductor section is series connected through an ohmic resistor  $R$  to a second conductor section. The first conductor section is arranged directly adjacent, however, electrically isolatingly spaced from and with respect to the second conductor section.